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Patent
Attorney's Docket No. 704592-5001

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of)
)
Zhen Fan FU) Group Art Unit: 1648
)
Application No.: 10/730,029) Examiner: M. Franco G. SALVOZA
)
Filed: December 9, 2003) Confirmation No.: 3231
)
For: ATTENUATED RABIES VIRUS)
WITH NUCLEOPROTEIN MUTATION)
AT THE PHOSPHORYLATION)

FOURTH INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In accordance with 37 C.F.R. § 1.56, the references listed on the attached Form PTO-1449 are being brought to the attention of the Examiner for consideration in connection with the examination of the above-identified patent application.

I. Timing of the Information Disclosure Statement:

This Information Disclosure Statement is filed:

- ☐ With the new patent application submitted herewith (37 C.F.R. § 1.97(a)).
- ☐ Within three months after the filing date of the application or within three months after the date of entry of the national stage of a PCT application as set forth in 37 C.F.R. § 1.491.
- ☐ Before the mailing date of a first Office action on the merits. In the event, however, that an Office Action has crossed in the mail with this Information Disclosure Statement, the Commissioner is hereby authorized to charge Deposit Account No. 50-4047 for any fees required pursuant to 37 C.F.R. §§ 1.17(p) or 1.17(i)(1).
- ☒ After a first Office Action on the merits but prior to the closing of prosecution, therefore under 37 C.F.R. § 1.97(c), the fee set forth in 37 C.F.R. § 1.17(p) is enclosed. This fee (\$180) should be charged to the undersigned's Deposit Account No. 50-4047.
- ☐ Each item of information contained in the Information Disclosure Statement was first cited in any communication mailed from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this information disclosure statement.

05/09/2007 SZEWDIE1 00000152 504047 10730029

II. Copies of the Cited Items:

- ☒ Copies of all of the items listed on the attached Form PTO-1449 are enclosed.
- ☐ Copies of only the following items listed on the attached Form PTO-1449 are enclosed: _____.
- ☐ Copies of items listed on the attached Form PTO-1449 are not supplied because they were previously cited by or submitted to the Patent Office in prior Application No. _____, filed _____, and relied upon in this application for an earlier filing date under 35 U.S.C § 120.
See 37 C.F.R. § 1.98(d).
- ☐ Copies of those items which are marked with an asterisk (**) in the attached Form PTO-1449 were cited in a foreign examination report in a related case. A copy of the search report and the cited references not already of record in this application are attached hereto.
- ☐ Pursuant to 37 C.F.R. § 1.98, a copy of each of the documents cited is enclosed. However, copies of the listed U.S. Patents and U.S. Patent Application Publications are not enclosed since it is no longer required.

III. Conclusion:

Citation of the above documents shall not be construed as:

1. an admission that the documents are necessarily prior art with respect to the instant invention;
2. a representation that a search has been made, other than as described above; or
3. an admission that the information cited herein is, or is considered to be, material to patentability as defined in § 1.56(b).

It is respectfully requested that the Examiner indicate consideration of the cited references by returning a copy of the attached form PTO 1449 with initials or other appropriate marks.

The Commissioner is hereby authorized to charge Deposit Account No. 50-4047 for any additional fees required in connection with the filing of this Information Disclosure Statement.

Respectfully submitted,
BINGHAM MCCUTCHEN, L.L.P.

Date: May 8, 2007

By: Sharon E. Crane
Sharon E. Crane, Ph.D
Registration No. 36,113

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Effective on 12/08/2004.
Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).**FEE TRANSMITTAL
for FY 2007**☐ Applicant claims small entity status. See 37 CFR 1.27**TOTAL AMOUNT OF PAYMENT** (\$) 180.00

Complete if Known	
Application Number	10/730,029
Filing Date	December 9, 2003
First Named Inventor	Zhen Fang Fu
Examiner Name	M. Franco G. Salvoza
Art Unit	1648
Attorney Docket No.	704592-5001

METHOD OF PAYMENT (check all that apply)☐ Check ☐ Credit Card ☐ Money Order ☐ None ☐ Other (please identify) : _____☒ Deposit Account Deposit Account Number: 50-4047 Deposit Account Name: Bingham McCutchen LLP

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

☒ Charge fee(s) indicated below☐ Charge fee(s) indicated below, except for the filing fee☒ Charge any additional fee(s) or underpayments of fee(s)☒ Credit any overpayments

Under 37 CFR 1.16 and 1.17

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.**FEE CALCULATION****1. BASIC FILING, SEARCH, AND EXAMINATION FEES**

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Fee (\$)	Small Entity Fee(\$)	Fee(\$)	Small Entity Fee(\$)	Fee(\$)	Small Entity Fee(\$)	
Utility	300	150	500	250	200	100	_____
Design	200	100	100	50	130	65	_____
Plant	200	100	300	150	160	80	_____
Reissue	300	150	500	250	600	300	_____
Provisional	200	100	0	0	0	0	_____

2. EXCESS CLAIM FEES**Fee Description**

Each claim over 20 (including Reissues)

Fee (\$)

50

Each independent claim over 3 (including Reissues)

200

Multiple dependent claims

360

Total Claims**Extra Claims****Fee(\$)****Fee Paid (\$)**

_____-20 or HP= _____ x _____ = _____

HP = highest number of total claims paid for, if greater than 20.

Indep. Claims**Extra Claims****Fee(\$)****Fee Paid (\$)**

_____-3 or HP= 0 x 0 = 0

HP = highest number of independent claims paid for, if greater than 3.

Small Entity

Fee (\$)

50

200

360

Multiple Dependent Claims

Fee (\$)

Fee Paid (\$)

3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof	Fee (\$)	Fee Paid (\$)
_____ - 100 = _____	/ 50 = 2	(round up to a whole number) x		=

4. OTHER FEE(S)

Non-English Specification, \$130 fee (no small entity discount)

Other (e.g., late filing surcharge): Fourth Information Disclosure Statement

Fees Paid (\$)

\$180.00

SUBMITTED BY

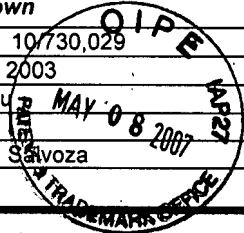
Signature	<i>Sharon E. Crane</i>	Registration No. (Attorney/Agent)	36,113	Telephone	202-373-6077
Name (Print/Type)	Sharon E. Crane, Ph.D.	Date	May 8 2007		

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT Date Submitted: November 19, 2003 (use as many sheets as necessary)				Complete if Known <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Application Number</td> <td>Divisional of: 10/730,029</td> </tr> <tr> <td>Filing Date</td> <td>December 9, 2003</td> </tr> <tr> <td>First Named Inventor</td> <td>Zhen Fang Fu</td> </tr> <tr> <td>Group Art Unit</td> <td>1648</td> </tr> <tr> <td>Examiner Name</td> <td>M. Franco G. Salvoza</td> </tr> <tr> <td>Attorney Docket Number</td> <td>704592-5001</td> </tr> </table>		Application Number	Divisional of: 10/730,029	Filing Date	December 9, 2003	First Named Inventor	Zhen Fang Fu	Group Art Unit	1648	Examiner Name	M. Franco G. Salvoza	Attorney Docket Number	704592-5001
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Attorney Docket Number	704592-5001																
Sheet	1	of	1														



U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
		5,853,735		Benejean, et al.	12-29-1998	
		6,719,881		Hunter et al.	04-13-2004	
		6,033,886		Conzelmann	03-07-2000	

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Documents	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Office ³	Number ⁴	Kind Code ⁵ (if known)			
		WO	00/32755			06-08-2000	
		EP	0583998 B1			01-20-1999	

Examiner Signature	Date Considered
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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